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**(54) PREPARATION OF
LIPOSOME CONTAINING
SEALED GENE**

(57) Abstract:

PURPOSE: To enable removal of microbial cells with a 0.45 μ m filter, by adding a polyhydric alcohol at a latter stage of a gene-inclusion process using a reverse- phase evaporation method, thereby efficiently including a DNA in a liposome having a diameter of \leq 450nm.

CONSTITUTION: In the production of a gene-including liposome by a reverse- phase evaporation method, a polyhydric alcohol such as glycerol or ethylene glycol is added at the latter stage of the gene-inclusion process. The liposome suspension obtained by the above process is treated with a Nuclepore filter having an average pore size of 400nm to obtain liposomes composed mainly of those having diameter of 100W400nm. The gene to be included by this process may be a DNA or a recombinant DNA.

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